

CLAIMS

1. (Currently Amended) An apparatus for navigating a vehicle, comprising:
a Global Positioning System (GPS) receiver, wherein the GPS receiver at least determines GPS coordinates of the vehicle;
a Radio Frequency (RF) receiver, wherein the RF receiver is at least configured to receive a plurality of RF signals, wherein the plurality of RF signals are at least configured to contain GPS coordinates of traffic or environmental conditions; and
[[a]] an in-vehicle processing unit, wherein the processing unit is at least configured to receive the GPS coordinates of the vehicle, to decode the plurality of RF signals and to calculate alternate routes of vehicle travel around the traffic or environmental conditions in response to GPS coordinates of the vehicle and the traffic or environmental conditions.
2. (Original) The apparatus of Claim 1, wherein the RF receiver is an Amplitude Modulation (AM) Radio receiver, a Frequency Modulation (FM) Radio receiver, a cellular receiver, or a satellite receiver.
3. (Original) The apparatus of Claim 2, wherein the processing unit further comprises:
a decoder, wherein the decoder decodes the plurality of RF signals into a plurality of constituent data streams, wherein at least one data stream is the GPS coordinates of traffic or environmental conditions; and
a navigation unit, wherein the navigation unit calculates alternate routes based on the GPS coordinates of the traffic or environmental conditions and the GPS coordinates of the vehicle.

4. (Original) The apparatus of Claim 3, wherein the processing unit further comprises:

a storage unit, wherein the storage unit at least stores a time of day of the traffic or environmental conditions, the GPS coordinates of the traffic or environmental conditions, and a date of the traffic or environmental conditions; and

a correlation unit, wherein the correlation unit is at least configured to determine historical trends of the traffic or environmental conditions based on the time of day of the traffic or environmental conditions, the GPS coordinates of the traffic or environmental conditions, and the date of the traffic or environmental conditions.

5. (Original) The apparatus of Claim 1, wherein the processing unit further comprises:

a storage unit, wherein the storage unit at least stores a time of day of the traffic or environmental conditions, the GPS coordinates of the traffic or environmental conditions, and a date of the traffic or environmental conditions; and

a correlation unit, wherein the correlation unit is at least configured to determine historical trends of the traffic or environmental conditions based on the time of day of the traffic or environmental conditions, the GPS coordinates of the traffic or environmental conditions, and the date of the traffic or environmental conditions.

6. (Currently Amended) A method for navigating a vehicle, comprising:

receiving GPS coordinates of the vehicle;

receiving a plurality of RF signals;

decoding the plurality of RF signal into a plurality of constituent data streams, wherein at least one constituent data stream at least comprises traffic or environmental conditions; and

[[plotting]] using an in-vehicle processor to plot alternate routes based at least on the GPS coordinates of the vehicle and the traffic or environmental conditions.

7. (Original) The method of Claim 6, wherein step of receiving a plurality of RF signals further comprises at least receiving AM Radio signals, FM Radio signals, cellular signals, or satellite signals.

8. (Original) The method of Claim 7, wherein the method further comprises:
at least storing a time of day of the traffic or environmental conditions;
at least storing the GPS coordinates of the traffic or environmental conditions;
at least storing a date of the traffic or environmental conditions; and
determining historical trends of the traffic or environmental conditions base on the time of day of the traffic or environmental conditions, the GPS coordinates of the traffic or environmental conditions, and the date of the traffic or environmental conditions.

9. (Original) The method of Claim 6, wherein the method further comprises:
at least storing a time of day of the traffic or environmental conditions;
at least storing the GPS coordinates of the traffic or environmental conditions;
at least storing a date of the traffic or environmental conditions; and

determining historical trends of the traffic or environmental conditions base on the time of day of the traffic or environmental conditions, the GPS coordinates of the traffic or environmental conditions, and the date of the traffic or environmental conditions.

10. (Currently Amended) A computer program product for navigating a vehicle in a computer system, the computer program product having a medium with a computer program embodied thereon, the computer program comprising:

computer code for receiving GPS coordinates of the vehicle;

computer code for receiving a plurality of RF signals;

computer code for decoding the plurality of RF signal into a plurality of constituent data streams, wherein at least one constituent data stream at least comprises traffic or environmental conditions; and

computer code for plotting alternate routes based at least on the GPS coordinates of the vehicle and the traffic or environmental conditions wherein the computer code for plotting alternate routes is configured and adapted to execute on an in-vehicle processor.

11. (Original) The computer program product of Claim 10, wherein computer code for receiving a plurality of RF signals further comprises at least a computer code for receiving AM Radio signals, FM Radio signals, cellular signals, or satellite signals.

12. (Original) The computer program product of Claim 11, wherein the computer program product further comprises:

computer code for storing a time of day of the traffic or environmental conditions;

computer code for storing the GPS coordinates of the traffic or environmental conditions;
computer code for storing a date of the traffic or environmental conditions; and
computer code for determining historical trends of the traffic or environmental conditions
base on the time of day of the traffic or environmental conditions, the GPS coordinates of the traffic
or environmental conditions, and the date of the traffic or environmental conditions.

13. (Original) The computer program product of Claim 10, wherein the computer
program product further comprises:

computer code for storing a time of day of the traffic or environmental conditions;
computer code for storing the GPS coordinates of the traffic or environmental conditions;
computer code for storing a date of the traffic or environmental conditions; and
computer code for determining historical trends of the traffic or environmental conditions
base on the time of day of the traffic or environmental conditions, the GPS coordinates of the
traffic or environmental conditions, and the date of the traffic or environmental conditions.

14. (Currently Amended) A processing unit for navigating a vehicle comprising at least
being configured to calculate alternate routes, wherein GPS coordinates of traffic or environmental
conditions and GPS coordinates of the vehicle are at least utilized, the processing unit comprising:

a decoder, wherein the decoder decodes a plurality of RF signals into a plurality of
constituent data streams, wherein at least one data stream is the GPS coordinates of traffic or
environmental conditions, and wherein the processing unit is an in-vehicle unit.

15. (Original) The processing unit of Claim 14, wherein the processing unit is at least configured to utilize an AM Radio receiver, a FM Radio receiver, a cellular receiver, or a satellite receiver for at least receiving the traffic and environmental conditions.

16. (Currently Amended) The processing unit of Claim 15, wherein the processing unit further comprises

a navigation unit, wherein the navigation unit calculates alternate routes based on the GPS coordinates of the traffic or environmental conditions and the GPS coordinates of the vehicle.

17. (Original) The processing unit of Claim 16, wherein the processing unit further comprises:

a storage unit, wherein the storage unit at least stores a time of day of the traffic or environmental conditions, the GPS coordinates of the traffic or environmental conditions, and a date of the traffic or environmental conditions; and

a correlation unit, wherein the correlation unit is at least configured to determine historical trends of the traffic or environmental conditions based on the time of day of the traffic or environmental conditions, the GPS coordinates of the traffic or environmental conditions, and the date of the traffic or environmental conditions.

18. (Original) The processing unit of Claim 14, wherein the processing unit further comprises:

a storage unit, wherein the storage unit at least stores a time of day of the traffic or environmental conditions, the GPS coordinates of the traffic or environmental conditions, and a date of the traffic or environmental conditions; and

a correlation unit, wherein the correlation unit is at least configured to determine historical trends of the traffic or environmental conditions based on the time of day of the traffic or environmental conditions, the GPS coordinates of the traffic or environmental conditions, and the date of the traffic or environmental conditions.